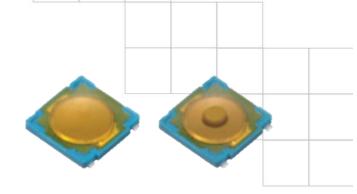


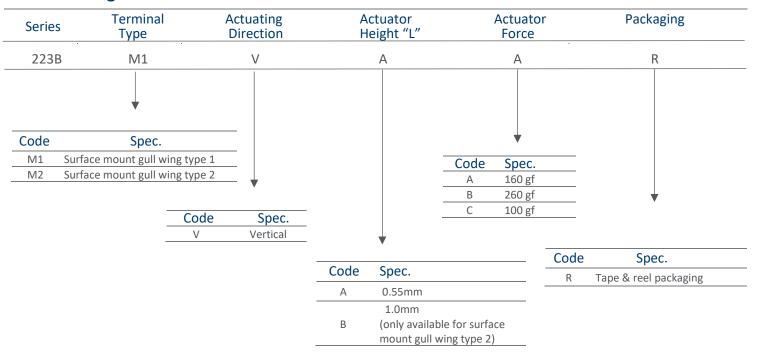
Series 223B

4.5x4.5mm Compact Tactile Switch

- Surface mount gull-wing terminal configurations
- Compatible with IR reflow and manual soldering
- Variety of operating force & actuator height options



Ordering Informatio



Notes: Contact CTS for other common features not listed.



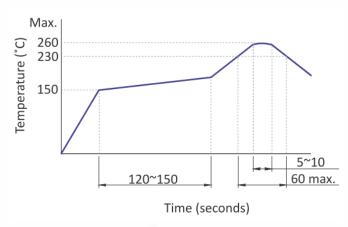
Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Contact Resistance			100	milliohms
Insulation Resistance	Between insulated terminals	100		Megohms
Dielectric Strength	1 minute between adjacent switches		250	VAC
Nonswitching Rating			50 or 12	mA or VDC

Mechanical and Environmental

Wechanical and Environmental				
Maximum reflow temperature, 260°C for 5 seconds Maximum manual temperature, 350°C for 3 seconds				
Lead-Free. Fully compliant to RoHS Directive 2011/65/EU				
100±30 gf 160±30 gf 260±50 gf				
100 gf: 500,000 cycles 160 gf: 500,000 cycles 260 gf: 200,000 cycles				
100 gf: 1,000,000 cycles 160 gf: 1,000,000 cycles 260 gf: 200,000 cycles				
3 Kgf maximum				
0.2 ^{+0.15} _{-0.1} mm				
Standard tape and reel packaging				
-40°C to +85°C				
-40°C to +85°C				

Soldering Profile





Mechanical Specifications

Figure 1 – 223BM1VA..., Surface Mount Gull Wing Type 1, Flat Surface

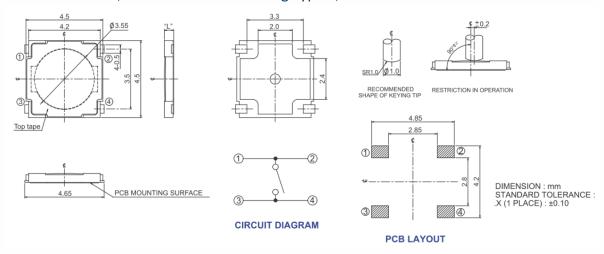


Figure 2 – 223BM2VA..., Surface Mount Gull Wing Type 2, Flat surface

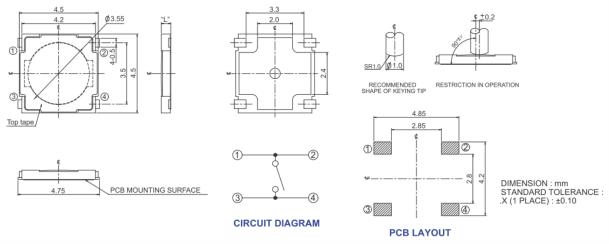
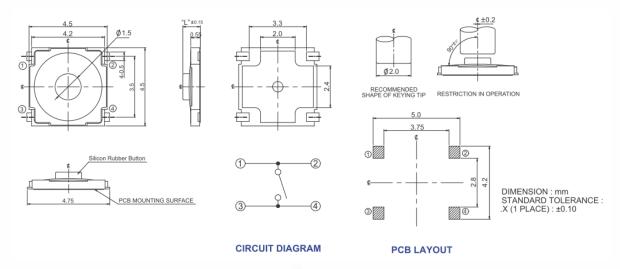


Figure 3 – 223BM2VB..., Surface Mount Gull Wing Type 2, With Button



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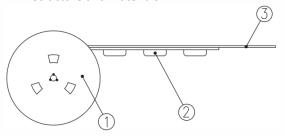


Packing: Tape and Reel

Surface Mount Gull Wing Flat Surface

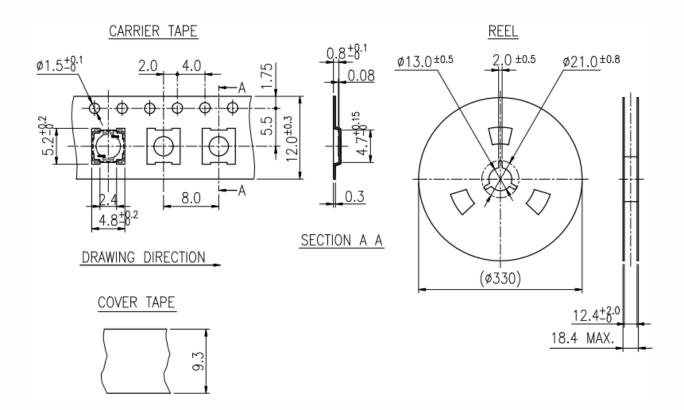
The packing specifications:

Structure and materials:



3	COVER TAPE	POLYESTER
2	CARRIER TAPE	POLYSTYRENE
1	REEL	POLYSTYRENE
NO.	PARTS NAME	MATERIALS

- 1. Packing quantity: 7,000 pcs/reel
- 2. More than 10 empty pockets should remain at each end of the carrier tape for each reel.
- 3. Shortage less than 10 pcs a reel is acceptable but more than 3 consecutive empty pockets are allowed.
- 4. Stripping strength of cover tape is between 10 gf to 70 gf and stripping angle should be within $165^{\circ}180^{\circ}$.
- 5. The product in the pocket of carrier tape should be placed in a specified correct position.
- 6. Tape and reel per EIA-481
- 7. Dimensions:

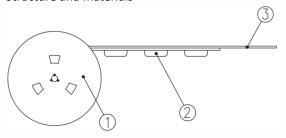




Surface Mount Gull Wing With Button

The packing specifications:

Structure and materials:



3	COVER TAPE	POLYESTER
2	CARRIER TAPE	POLYSTYRENE
1	REEL	POLYSTYRENE
NO.	PARTS NAME	MATERIALS

- 1. Packing quantity: 5,500 pcs/reel
- 2. More than 10 empty pockets should remain at each end of the carrier tape for each reel.
- 3. Shortage less than 10 pcs a reel is acceptable but no more than 3 consecutive empty pockets are allowed.
- 4. Stripping strength of cover tape is between 10 gf to 70 gf and stripping angle should be within 165° 180°.
- 5. The product in the pocket of carrier tape should be placed in a specified correct position.
- 6. Tape and reel per EIA-481.
- 7. Dimensions:

